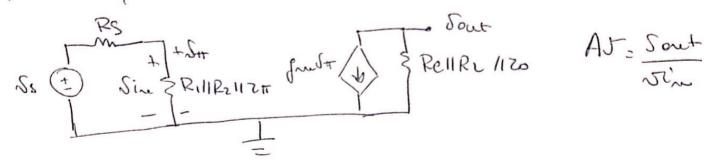
In class problem - Lecture 18 the upper cut - off fuguerous of the given circuit. AC CIRCUIT AT HIGH FRE QUENCY Cu and the output of the susperfier. SHALL-SIGNAL 5# \$ 5# C# 8ms# E QUI VALENT CIRCUIT AT HIGH FREQUENCY Using the priller theorem we con reduce the whombo above to Cro= Cu(1- Ax) Cin = Chi+Cor will field one apper Cut-off frequency Cout = Cro will jield one upper out-off frequency Thout = Treport Court At is the amplifier midband gain: A = Sout I Sine

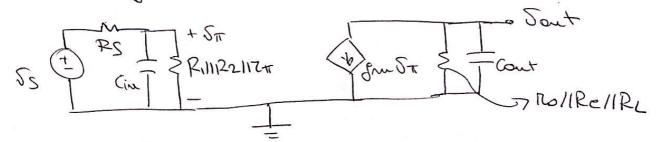
Scanned with CamScanner

As we need the midband goin to determine the 2 Hiller (2) Copacitances, we need to sketch the midband whomit

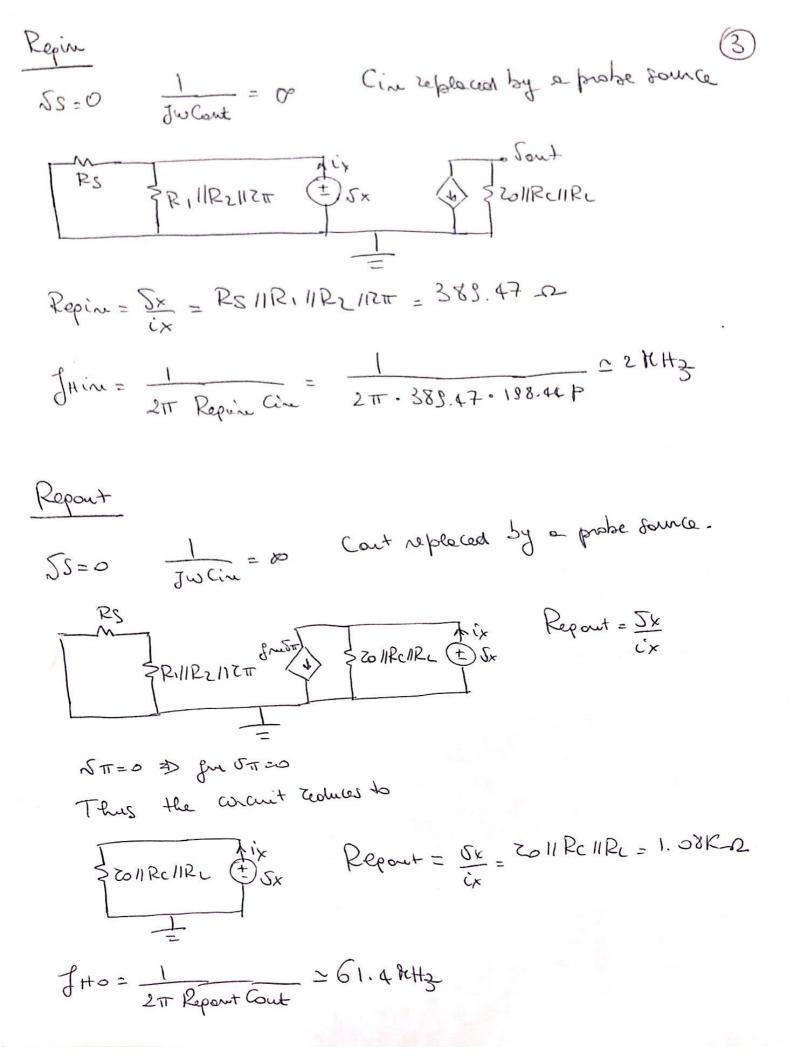


Thus

Now, going back to the ligh frequency anauit



To be remine the upper cut-off frequencies established by Cin and Cout we need to determine the epusolent resistance Seen by the 2 capacitors, namely Report and Report.



The two upper course frequencie of the whent are & fine 2MHz and fhout = 61.4 HHz.

The dominant upper out-off frequency is the lowert of the two